

Abstract

SELF-BOOSTING ELECTROMECHANICAL FRICTION BRAKE

The invention relates to a self-boosting electromechanical friction brake (10), having a friction brake lining (14), which is displaceable for actuation in the direction of rotation (30) of a brake disk (16) and which is braced via roller bodies (24) on ramps (28) of an abutment plate (26). When the friction brake (10) is actuated, the rotating brake disk exerts a frictional force on the friction brake lining (14) pressed against it, which urges the friction brake lining in the direction of an increasingly narrow gap between the ramps (28) and the brake disk (16) and thus exerts a contact pressure that is in addition to the contact pressure exerted by an actuation device. The self-boosting action is attained thereby. The invention proposes supporting the roller bodies (24), for instance with bearing blocks (22), fixedly and rotatably on the friction brake lining (14). This has the advantage that the roller bodies (24) move in slaved fashion with the friction brake lining (14) and always brace the friction brake lining (14) at the same points. (Fig. 1)